The

Geophysical Journal

of the

Royal Astronomical Society

Volume 31

Published for the Royal Astronomical Society by
Blackwell Scientific Publications
Oxford Edinburgh London Melbourne

AUTHOR INDEX

PAGE

Aki, Keiiti, Scaling law of earthquake source time-function 1
Archambeau, Charles B., The theory of stress wave radiation from explosions in prestressed media (Appendix) 361
Bakun, William G., King, Chi-Yu & Murdock, James N., Source parameters of nuclear explosions MILROW and LONGSHOT from teleseismic *P* waves 27
Bamford, S. A. D., An example of the iterative approach to time-term analysis 365
Blandford, Robert & Seggern, David von, Source time functions and spectra for underground nuclear explosions 83
Block, Barry & Dratler, Jay, A review of tidal, Earth normal mode and seismic data obtained with quartz torsion accelerometers 239
Bungum, Hilmar & Filson, John, Initial discrimination results from the Norwegian seismic array 315
Capon, Jack, Long-period signal processing results for LASA, NORSAR and ALPA .. 279
Choy, George L., Savino, John M., Murphy, Andrew J., Rynn, John M. W., Tatham, Robert, Sykes, Lynn R. & McCamy, Keith, Results from the high-gain long-period seismograph experiment 179
Dahlen, R. A., Elastic dislocation theory for a self-gravitating elastic configuration with an initial static stress field—II. Energy release 469
Davies, David & Ziolkowski, Anton, Observations of short-period seismic energy from earthquakes and inferences about the seismic source 131
Dean, W. C., Detection threshold of the LASA/SAAC system 271
Dratler, Jay & Block, Barry, A review of tidal, Earth normal mode and seismic data obtained with quartz torsion accelerometers 239
Filson, John & Bungum, Hilmar, Initial discrimination results from the Norwegian seismic array 315
Frasier, C. W., Observations of *pP* in the short-period phases of NTS explosions recorded at Norway 99
Harkrider, D. G. & Helmberger, D. V., Seismic source descriptions of underground explosions and a depth discriminate 45
Harley, T. W. & Heiting, L. N., Preliminary evaluation of ALPA 279
Heiting, L. N. & Harley, T. W., Preliminary evaluation of ALPA 279
Heller, F. & Markert, H., The age of viscous remanent magnetization of Hadrian's Wall (Northern England) 395
Helmberger, D. V. & Harkrider, D. G., Seismic source descriptions of underground explosions and a depth discriminate 45
Hudson, J. A., Lapwood, E. R. & Kembhavi, V. K., The passage of elastic waves through an anomalous region—I. Transmission of body waves through a soft layer 457
Hughes, W. J., The effect of two periodic conductivity anomalies on geomagnetic micropulsation measurements 407
Kehrer, Harold H. & Toksöz M. Nafi Tectonic strain release by underground nuclear explosions and its effect on seismic discrimination 141
Kembhavi, V. K., Lapwood, E. R. & Hudson, J. A., The passage of elastic waves through an anomalous region—I. Transmission of body waves through a soft layer 457
King, Chi-Yu, Bakun, William H. & Murdock, James N., Source parameters of nuclear explosions MILROW and LONGSHOT from teleseismic *P* waves 27
Landers, Tom, Some interesting central Asian events on the M_s:m_b diagram 329
Lapwood, E. R., Hudson, J. A. & Kembhavi, V. K., The passage of elastic waves through an anomalous region—I. Transmission of body waves through a soft layer 457
Lilley, F. E. M. & Tammemagi, H. Y., A magnetotelluric traverse in southern Australia .. 433
Markert, H. & Heller, F., The age of viscous remanent magnetization of Hadrian's Wall (Northern England) 395
McCamy, Keith, Savino, John M., Murphy, Andrew J., Rynn, John M. W., Tatham, Robert, Sykes, Lynn R. & Choy, George L., Results from the high-gain long-period seismograph experiment 179
McEvilly, T. V. & Peppin, W. A., Source characteristics of earthquakes, explosions and aftershocks 67
Murdock, James N., King, Chi-Yu & Bakun, William H., Source parameters of nuclear explosions MILROW and LONGSHOT from teleseismic *P* waves 27
Murphy, Andrew J., Savino, John M., Rynn, John M. W., Tatham, Robert, Sykes, Lynn R., Choy, George L. & McCamy, Keith, Results from the high-gain long-period seismograph experiment 179
Parker, R. L., The rapid calculation of potential anomalies 447

Peppin, W. A. & McEvilly, T. V., Source characteristics of earthquakes, explosions and after-events 67
Rynn, John M. W., Savino, John M., Murphy, Andrew J., Tatham, Robert, Sykes, Lynn R., Choy, George L. & McCamy, Keith, Results from the high-gain long-period seismograph experiment 179
Savino, John M., Murphy, Andrew J., Rynn, John M. W., Tatham, Robert, Sykes, Lynn R., Choy, George L. & McCamy, Keith, Results from the high-gain long-period seismograph experiment 179
Seggern, David von & Blandford, Robert, Source time functions and spectra for underground nuclear explosions 83
Solomon, Sean C., On Q and seismic discrimination 141
Sykes, Lynn R., Savino, John M., Murphy, Andrew J., Rynn, John M. W., Tatham, Robert, Choy, George L. & McCamy, Keith, Results from the high-gain long-period seismograph experiment 179
Tammemagi, H. Y. & Lilley, F. E. M., A magnetotelluric traverse in southern Australia .. 433
Tatham, Robert, Savino, John M., Murphy, Andrew J., Rynn, John M. W., Sykes, Lynn R., Choy, George L. & McCamy, Keith, Results from the high-gain long-period seismograph experiment 179
Toksöz, M. Nafi & Kehrer, Harold H., Tectonic strain release by underground nuclear explosions and its effect on seismic discrimination 141
Tsai, Yi-Ben, Use of *LP* surface waves for source characterization 111
Walton, K., Seismic waves in pre-strained media 373
Whorf, Timothy, Teleseismic and Earth noise monitoring with the Block–Moore quartz accelerometer 205
Wyss, Max, Towards a physical understanding of the earthquake frequency distribution .. 341
Ziolkowski, Anton, & Davies, David, Observations of short-period seismic energy from earthquakes and inferences about seismic source 131

SUBJECT INDEX

PAGE

Earthquakes and explosions

Scaling law of earthquakes source time-function, *Keiiti Aki* 3
Source parameters of nuclear explosions MILROW and LONGSHOT from teleseismic *P* waves, *Chi-Yu King, William H. Bakun & James N. Murdock* 27
Seismic source descriptions of underground explosions and a depth discriminant, *D. V. Helmberger & D. G. Harkrider* 45
Source characteristics of earthquakes, explosions and afterevents, *T. V. McEvilly & W. A. Peppin* 67
Source time functions and spectra for underground nuclear explosions, *David von Seggern & Robert Blandford* 83
Observations of *pP* in the short-period phases of NTS explosions recorded at Norway, *C. W. Frasier* 99
Use of LP surface waves for source characterization, *Yi-Ben Tsai* 111
Observations of short-period seismic energy from earthquakes and inferences about the seismic source, *David Davies & Anton Ziolkowski* 131
Tectonic strain release by underground nuclear explosions and its effect on seismic discrimination, *M. Nafi Toksöz and Harold H. Kehrer* 141
Some interesting central Asian events on the M_s:m_b diagram, *Tom Landers* 329
Towards a physical understanding of the earthquake frequency distribution, *Max Wyss* .. 341
The theory of stress wave radiation from explosions in prestressed media (Appendix), *Charles B. Archambeau* 361
Elastic dislocation theory for a self-gravitating elastic configuration with an initial static stress field—II. Energy release, *F. A. Dahlen* 469

Geomagnetism

The effect of two periodic conductivity anomalies on geomagnetic micropulsation measurements, *W. J. Hughes* 407
A magnetotelluric traverse in southern Australia, *H. Y. Tammemagi & F. E. M. Lilley* .. 433

Palaeomagnetism

The age of viscous remanent magnetization of Hadrian's Wall (Northern England), *F. Heller & H. Markert* 395

PAGE

Potential theory

The rapid calculation of potential anomalies, *R. L. Parker* 447

Seismic instrumentation

Results from the high-gain long-period seismograph experiment, *John M. Savino, Andrew J. Murphy, John M. W. Rynn, Robert Tatham, Lynn R. Sykes, George L. Choy & Keith McCamy* 179

Teleseismic and Earth noise monitoring with the Block–Moore quartz accelerometer, *Timothy Whorf* 205

A review of tidal, Earth normal mode and seismic data obtained with quartz torsion accelerometers, *Barry Block & Jay Dratler* 239

Detection threshold of the LASA/SAAC system, *W. C. Dean* 271

Long-period signal processing results for LASA, NORSAR and ALPA, *Jack Capon* .. 279

Preliminary evaluation of ALPA, *T. W. Harley & L. N. Heiting* 297

Initial discrimination results from the Norwegian seismic array, *John Filson & Hilmar Bungum* 315

Seismology—general

On Q and seismic discrimination, *Sean C. Solomon* 163

An example of the iterative approach to time-term analysis, *S. A. D. Bamford* 365

Seismic waves in pre-strained media, *K. Walton* 373

The passage of elastic waves through an anomalous region—I. Transmission of body waves through a soft layer, *E. R. Lapwood, J. A. Hudson & V. K. Kembhavi* 457